

I-Storm USB ADSL modem

A01-AU1



Manual for Linux and Mac OS 9/X

A01-AU1_ME01



SOMMARIO

Chapter 1	1
1.1 I-Storm USB ADSL Modem Features	1
1.2 Package Contents.....	1
1.3 The Front LEDs.....	2
1.4 Information from ISP	2
Chapter 2	4
2.1 Installing I-Storm USB ADSL Modem.....	4
2.2 Installing I-Storm USB ADSL Modem Drivers.....	4
2.2.1 For Windows 98	4
2.2.2 For Windows Me.....	8
2.2.3 For Windows 2000	11
2.2.4 For Windows XP	14
2.2.5 For Mac OS 9	20
2.2.6 For Mac OS X	21
2.2.7 For Linux Redhat 7.1/7.2.....	23
Chapter 3	25
3.1 I-Storm USB ADSL LAN(RFC1483, RFC1577) ...	28
3.1.1 For Windows 98 / Me.....	28
3.1.2 For Windows 2000 / XP	31
3.2 I-Storm USB ADSL WAN(PPPoA, PPPoE).....	33
Chapter 4	35
4.1 Factory Default Settings	36
4.2 Configuring with Web Browser	37
4.2.1 Status – Home Page.....	38
ADSL Status	38
Status – PPP.....	39
4.2.2 Configuration – WAN Configuration.....	40
4.2.3 Configuration – LAN Configuration	42

4.2.4 Configuration – DNS Configuration	44
4.2.5 System – Password Configuration.....	45
4.2.6 System – Diagnostic Test	45
4.2.7 System – System Log	50
4.2.8 Advance – WAN Status.....	51
4.2.9 Advance – ATM Status	51
4.2.10 Advance – TCP Status.....	52
4.2.11 Advance – ADSL Configuration	53
4.2.12 Save Settings	54
APPENDIX	56

A01-AU1_ME01(V1.2 July 2004)



Introduction

1.1 I-Storm USB ADSL Modem Features

I-Storm USB ADSL Modem provides the following features:

- ◆ Bus-powered USB modem for broadband ADSL.
- ◆ Downstream data rate up to 8 Mbps and upstream up to 1 Mbps.
- ◆ No external power supply is required.
- ◆ Hot Plug and Play for Microsoft Windows 98 (SE), 2000, Me, and XP.
- ◆ Mac OS 9/X and Linux (Red Hat)
- ◆ Supports NDIS interface for RAS and Dial-Up Networking.
- ◆ Software upgradeable.
- ◆ Supports multiple data encapsulation formats, including PPPoE, PPPoA, IPoA, and RFC1483 bridged or routed.
- ◆ Friendly GUI Configuration Program.

1.2 Package Contents

The product package comes with the following accessories:

1. One Atlantis I-Storm USB ADSL Modem
2. One installation CD with drivers and online manual



3. One RJ-11 ADSL telephone cable
4. One USB cable
5. One Quick Start Guide

1.3 The Front LEDs

LED	Meaning
USB	When this LED is lit, it indicates that the USB port is connected to the PC and working properly.
DATA	Flashes when transferring data.
ADSL	When lit, it indicates that the ADSL (Line) port is connected to the DSLAM and working properly.

1.4 Information from ISP

Before you start installing this device, you have to check with your ISP what kind of service (connection method) is provided such as PPPoE, PPPoA, RFC1483 bridged or routed, IPoA.

Gather the information as illustrated in the following table and keep it for reference.

If your ISP provides PPPoE or PPPoA connection method, please select “I-Storm USB ADSL WAN Adapter” to install driver. If your ISP provides RFC1483 Bridged or Routed or IPoA, please select “I-Storm USBADSL LAN Adapter” to install driver.



I-Storm USB ADSL modem

PPPoE	VPI/VCI, VC-based/LLC-based multiplexing, Username, Password, Service Name, and Domain Name System (DNS) IP address (it can be automatically assigned from ISP or be set fixed).
PPPoA	VPI/VCI, VC-based/LLC-based multiplexing, Username, Password, and Domain Name System (DNS) IP address (it can be automatically assigned from ISP or be set fixed).
RFC1483 Bridged	VPI/VCI, VC-based/LLC-based multiplexing
RFC1483 Routed	VPI/VCI, VC-based/LLC-based multiplexing, IP address, Subnet mask, Gateway address, and Domain Name System (DNS) IP address (it is fixed IP address).
IPoA	VPI/VCI, IP address, Subnet mask, Gateway address, and Domain Name System (DNS) IP address (it is fixed IP address).



Installation

2.1 Installing I-Storm USB ADSL Modem

Please refer to the following instructions:

1. Connect ADSL telephone cable to the LINE RJ-11 jack.
2. Connect the USB cable to the USB port and connect the other end to the PC.

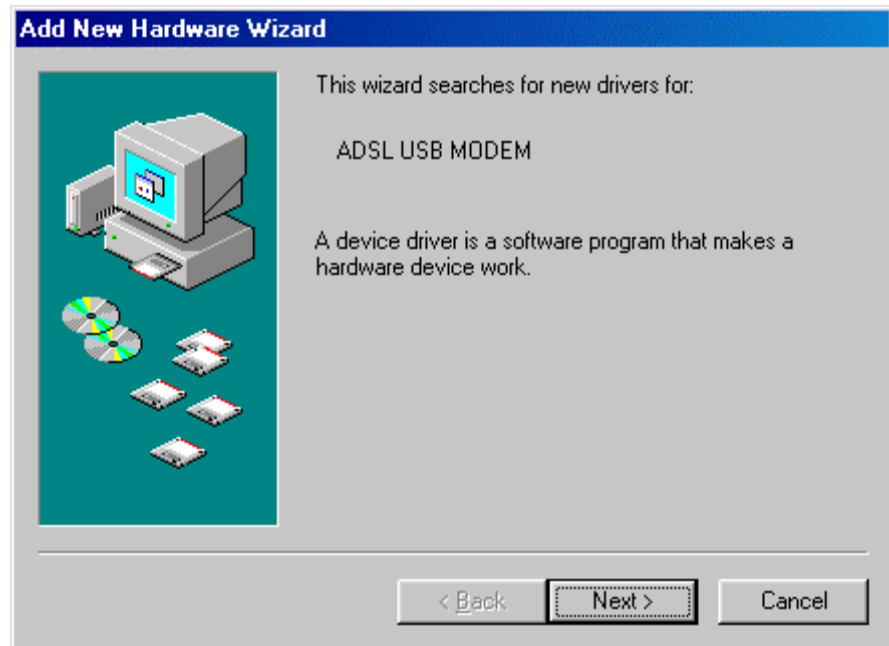
2.2 Installing I-Storm USB ADSL Modem Drivers

2.2.1 For Windows 98

1. Start Windows. After the opening banner, Windows will tell you that the new device has been detected. You will then see the following screen. Click “**Next >**”.



I-Storm USB ADSL modem



2. In the next window, select “**Search for the best driver for your device**” and click “**Next >**”.



3. Insert the installation CD into the CD-ROM drive and check “**Specify a location**”. Click “**Browse...**” to specify the driver directory such as **CDRom:\Driver\LAN** for installing I-Storm USB ADSL LAN Adapter or **CDRom:\Driver\WAN** for installing I-Storm USB



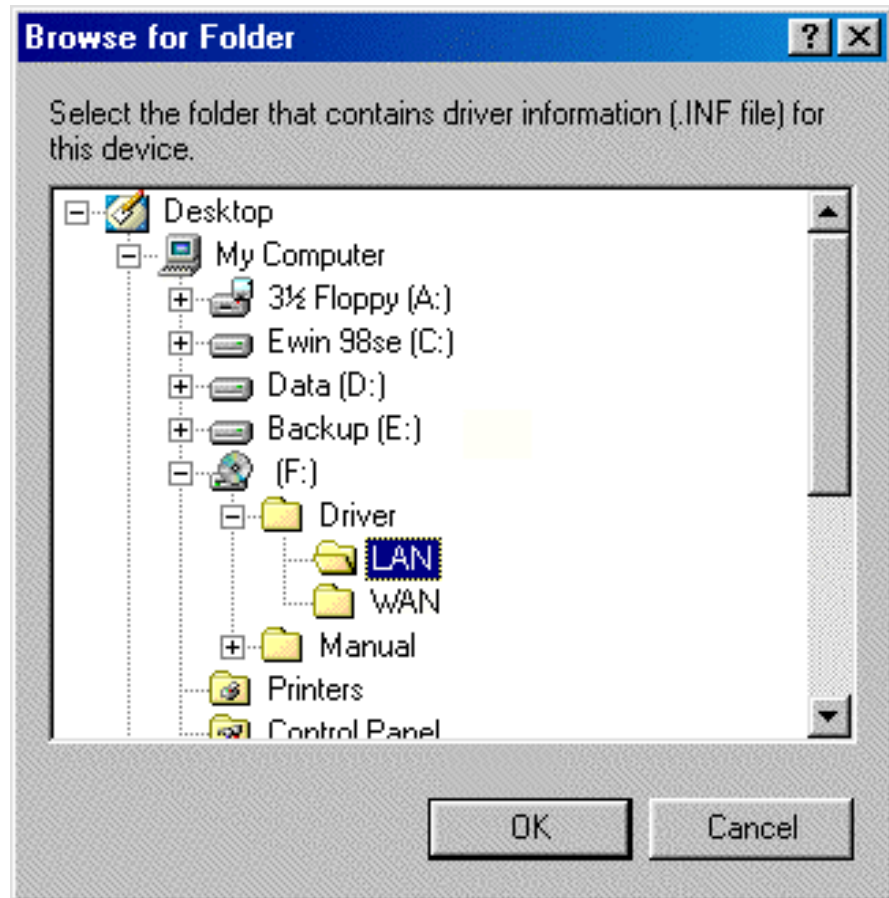
I-Storm USB ADSL modem

ADSL WAN Adapter. (Please refer *Information from ISP* section for more details.) Click “OK” and then “Next>” to continue.





I-Storm USB ADSL modem



4. Continuing through the Wizard, click the “**Next >**” button. Windows will start copying files to your system. Then, click “**Finish**”.
5. You will see the following screen prompting for the path of the Windows source files. Please specify a location. Click “**OK**”.





I-Storm USB ADSL modem

6. I-Storm USB ADSL Modem driver is successfully installed and the Status Task Bar will appear in the System Tray.



7. **I-Storm USB ADSL Modem** icon is installed in the Control Panel.
8. Go to the Device Manager, the “**I-Storm USB ADSL LAN Adapter**” is under the Network Adapters, and “**I-Storm USB ADSL Modem**” is under the Universal Serial Bus Controllers for I-Storm USB ADSL LAN driver installation.

Go to the Device Manager, the “**I-Storm USB ADSL WAN Adapter**” is under the Network Adapters, and “**I-Storm USB ADSL Modem**” is under the Universal Serial Bus Controllers for I-Storm USB ADSL WAN driver installation.

2.2.2 For Windows Me

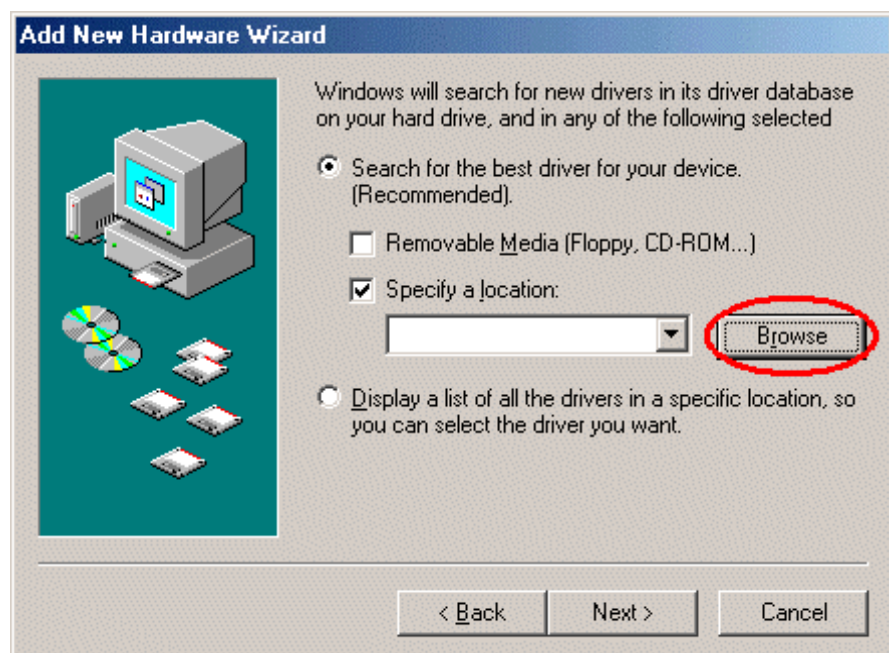
1. Start Windows. After the opening banner, Windows will tell you that the new device has been detected. Select “Specify the location of the driver” and click “Next >”.



I-Storm USB ADSL modem

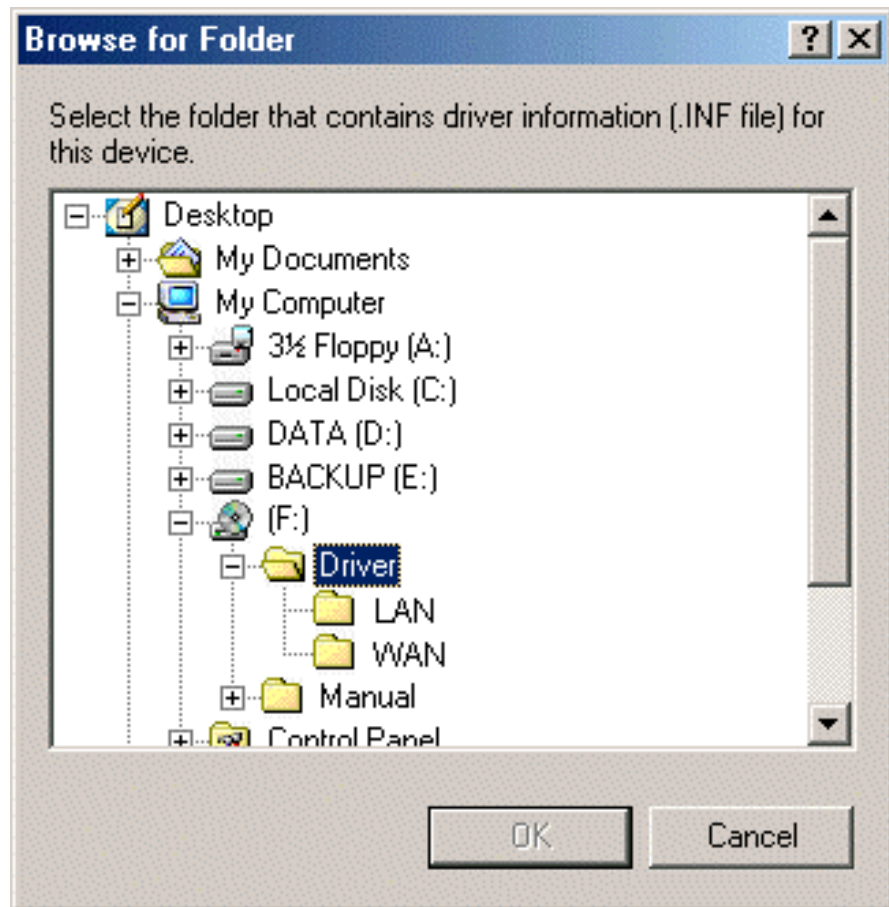


2. Insert the installation CD into the CD-ROM drive and check “Specify a location”. Click “Browse...” to specify the driver directory such as CDRom:\Driver\LAN for installing I-Storm USB ADSL LAN Adapter or CDRom:\Driver\WAN for installing I-Storm USB ADSL WAN Adapter. (Please refer ***Information from ISP*** section for more details.) Click “OK” and then “Next>” to continue.

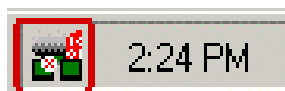




I-Storm USB ADSL modem



3. Continuing through the Wizard, Windows will start copying files to your system. Then, click “Finish”.
4. I-Storm USBADSL Modem driver is successfully installed and the Status Task Bar will appear in the System Tray.



5. **I-Storm USB ADSL Modem** icon is installed in the Control Panel.



I-Storm USB ADSL modem

6. Go to the Device Manager, the “**I-Storm USB ADSL LAN Adapter**” is under the Network Adapters, and “**I-Storm USB ADSL Modem**” is under the Universal Serial Bus Controllers for I-Storm USB ADSL LAN driver installation.

Go to the Device Manager, the “**I-Storm USB ADSL WAN Adapter**” is under the Network Adapters, and “**I-Storm USB ADSL Modem**” is under the Universal Serial Bus Controllers for I-Storm USB ADSL WAN driver installation.

2.2.3 For Windows 2000

1. Start Windows. After the opening banner, Windows will show the new device has been detected. Click “Next>”.

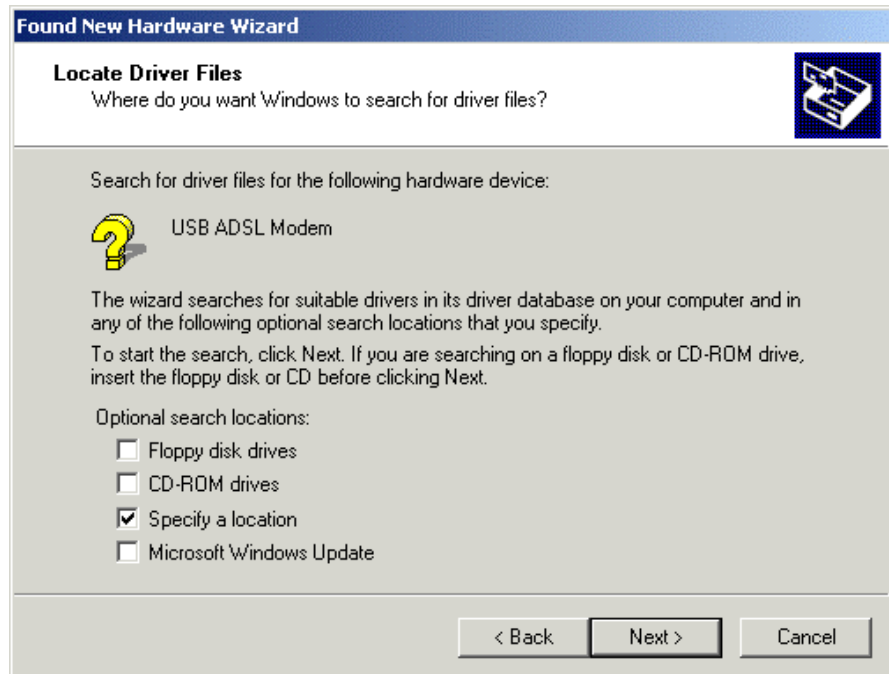


2. Select “Search for a suitable driver for my device”. Click “Next>”. Then, insert the installation CD into the CD-



I-Storm USB ADSL modem

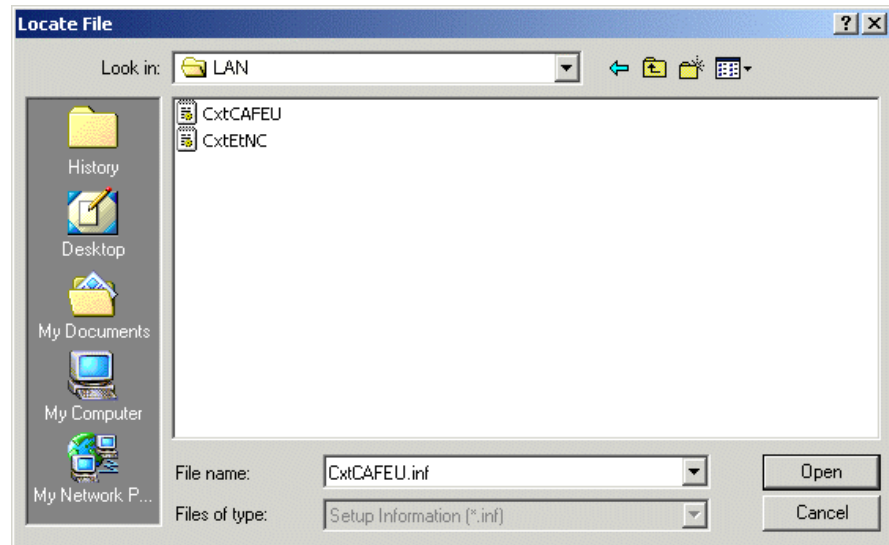
ROM drive. In next window, check “Specify a location” and click “Next>”.



3. Click “Browse...”. In the **Locate File** window, specify the driver directory such as CDRom:\Driver\LAN\CxtCAFEU for installing I-Storm USB ADSL LAN Adapter or CDRom:\Driver\WAN\CxtCAFEU for installing I-Storm USB ADSL WAN Adapter. (Please refer ***Information from ISP*** section for more details.) Click “Open” and then “Next>” to continue.



I-Storm USB ADSL modem



4. When windows titled “Digital Signature Not Found” appear, press “Yes” to continue the installation.



5. Press “Finish”.
6. I-Storm USB ADSL Modem driver is successfully installed and the Status Task Bar will appear in the System Tray.



I-Storm USB ADSL modem



7. **I-Storm USB ADSL Modem** icon is installed in the Control Panel.
8. Go to the Device Manager, the “**I-Storm USB ADSL LAN Adapter**” is under the Network Adapters, and “**I-Storm USB ADSL Modem**” is under the Universal Serial Bus Controllers for I-Storm USB ADSL LAN driver installation.

Go to the Device Manager, the “**I-Storm USB ADSL WAN Adapter**” is under the Network Adapters, and “**I-Storm USB ADSL Modem**” is under the Universal Serial Bus Controllers for I-Storm USB ADSL WAN driver installation.

2.2.4 For Windows XP

1. Start Windows. After the opening banner, Windows will tell you that the new device has been detected. Select “Install from a list or specific location” and click “Next >”.



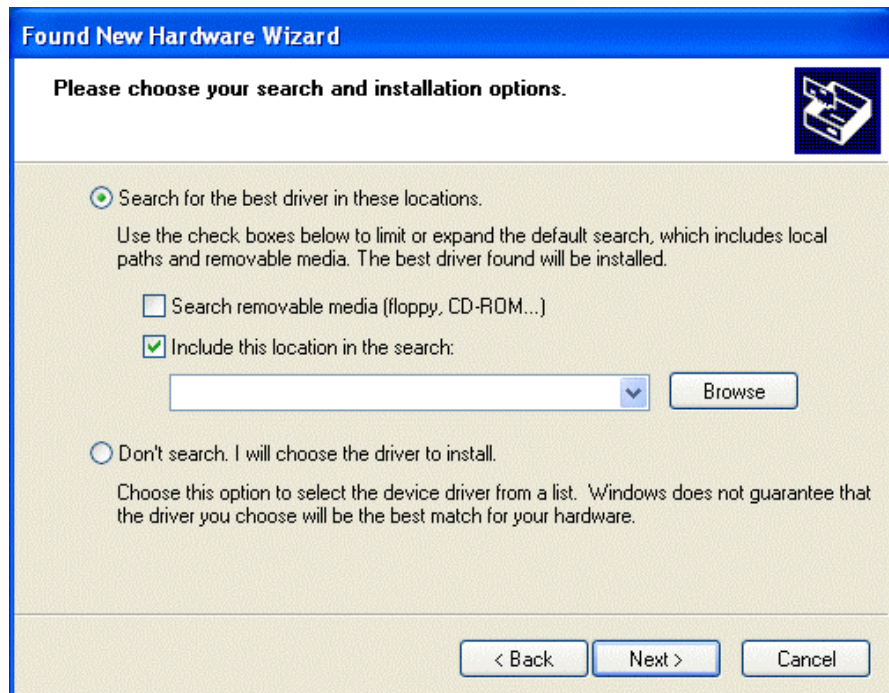
I-Storm USB ADSL modem



2. Insert the installation CD into the CD-ROM drive and select “Include this location in the search”. Click “Browse” to specify the driver directory such as CDRom:\Driver\LAN for installing I-Storm USB ADSL LAN Adapter or CDRom:\Driver\WAN for installing I-Storm USB ADSL WAN Adapter. (Please refer ***Information from ISP*** section for more details.) Click “OK” and then “Next>” to continue.



I-Storm USB ADSL modem





I-Storm USB ADSL modem

3. When windows titled “Hardware Installation” or “Software Installation” appear, press “Continue Anyway” to go on.

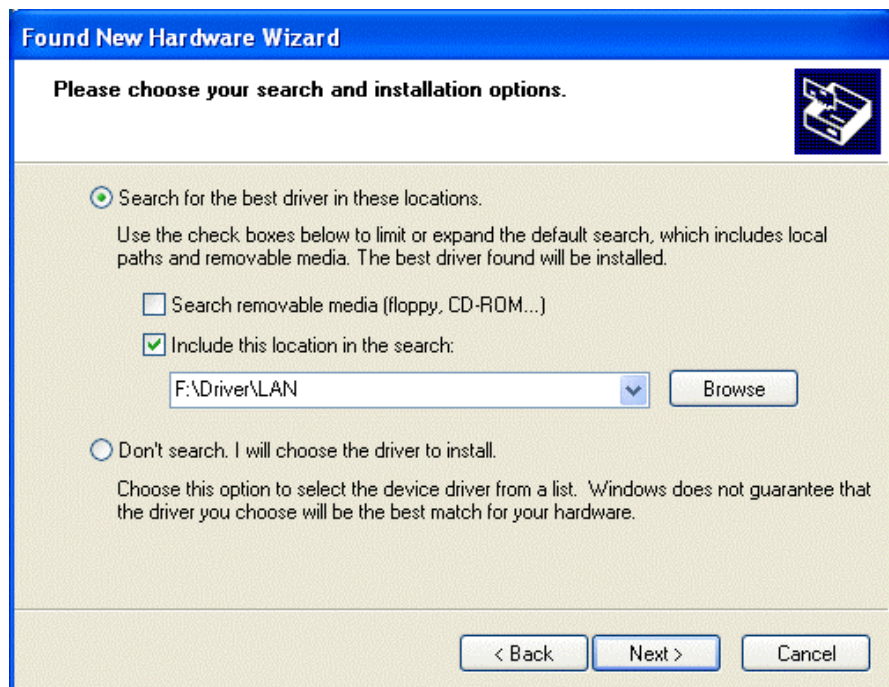


4. Then, click “Finish”.



I-Storm USB ADSL modem

5. Wait a few moments. Windows will show that the new device, I-Storm USB ADSL LAN (or WAN) Adapter, has been detected. Select “Install from a list or specific location”. Click “Next >”
6. Click “Next >” when the following figure appears.



7. When windows titled “Hardware Installation” appears, press “Continue Anyway”.



I-Storm USB ADSL modem



8. Then, click “Finish” to end the installation.
9. I-Storm USB ADSL Modem driver is successfully installed and the Status Task Bar will appear in the System Tray.



10. **I-Storm USB ADSL Modem** icon is installed in the Control Panel.
11. Go to the Device Manager, the “**I-Storm USB ADSL LAN Adapter**” is under the Network Adapters, and “**I-Storm USB ADSL Modem**” is under the Universal Serial Bus Controllers for I-Storm USB ADSL LAN driver installation.

Go to the Device Manager, the “**I-Storm USB ADSL WAN Adapter**” is under the Network Adapters, and



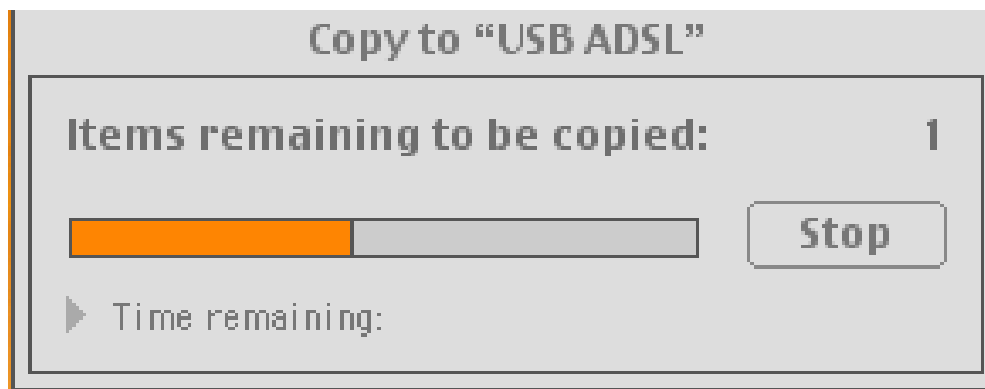
I-Storm USB ADSL modem

“I-Storm USB ADSL Modem” is under the Universal Serial Bus Controllers for I-Storm USB ADSL WAN driver installation.

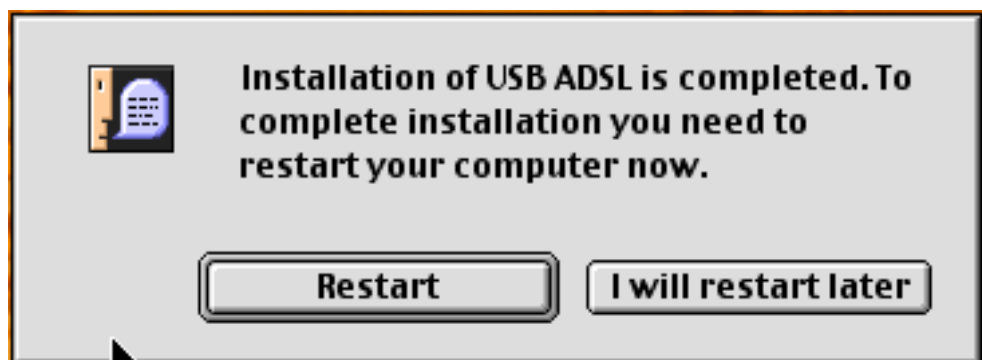
2.2.5 For Mac OS 9

If you connect the ADSL Modem/Router through USB port, for the first time the USB cable is connected to the PC, the host PC OS will automatically detect the device. Follow the steps to install the USB driver.

1. When PC tells you that the new device has been detected, insert the installation CD into the CD-ROM drive (CDRom:\Driver\MacOS9). Click the driver installer. The following directory will be created.
2. Click “Install”.



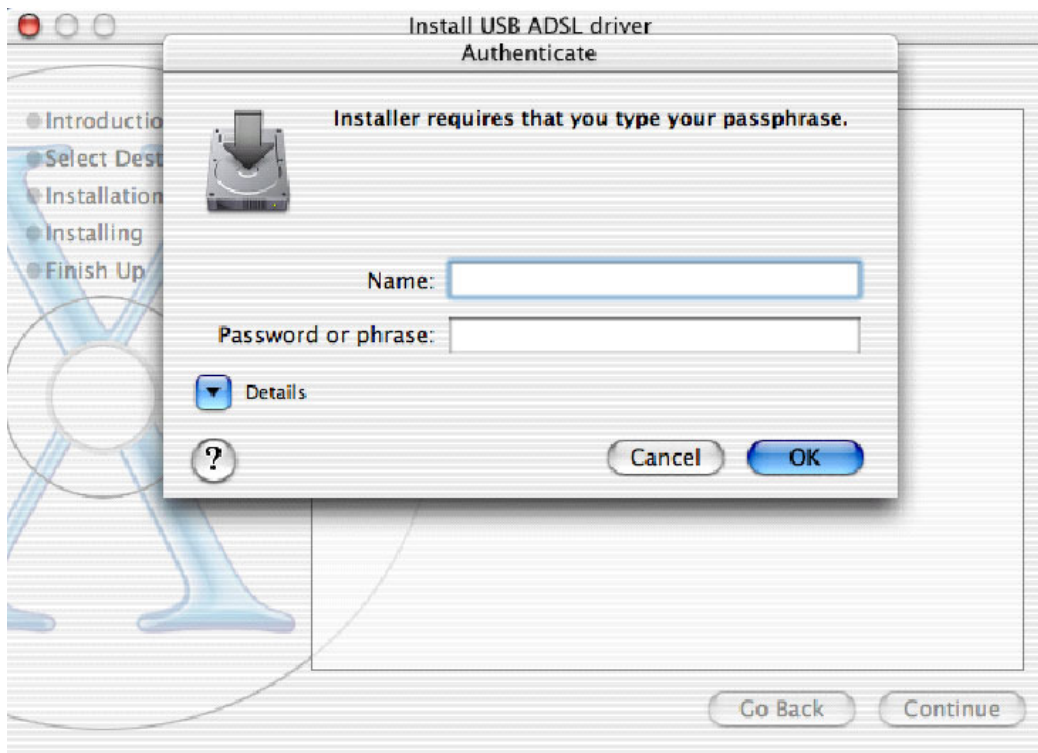
3. Click “Restart” to end the installation.





2.2.6 For Mac OS X

1. Insert the installation CD into the CD-ROM drive, click the driver installer.
2. Input the user name and password of your Mac system.



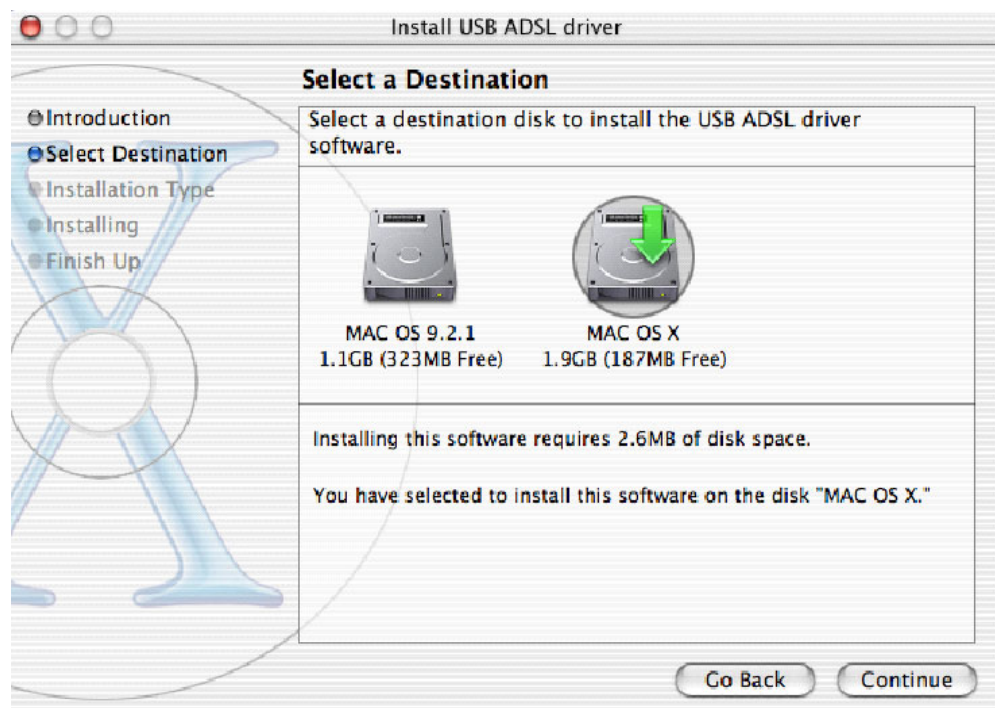
3. Click “Continue”.



I-Storm USB ADSL modem



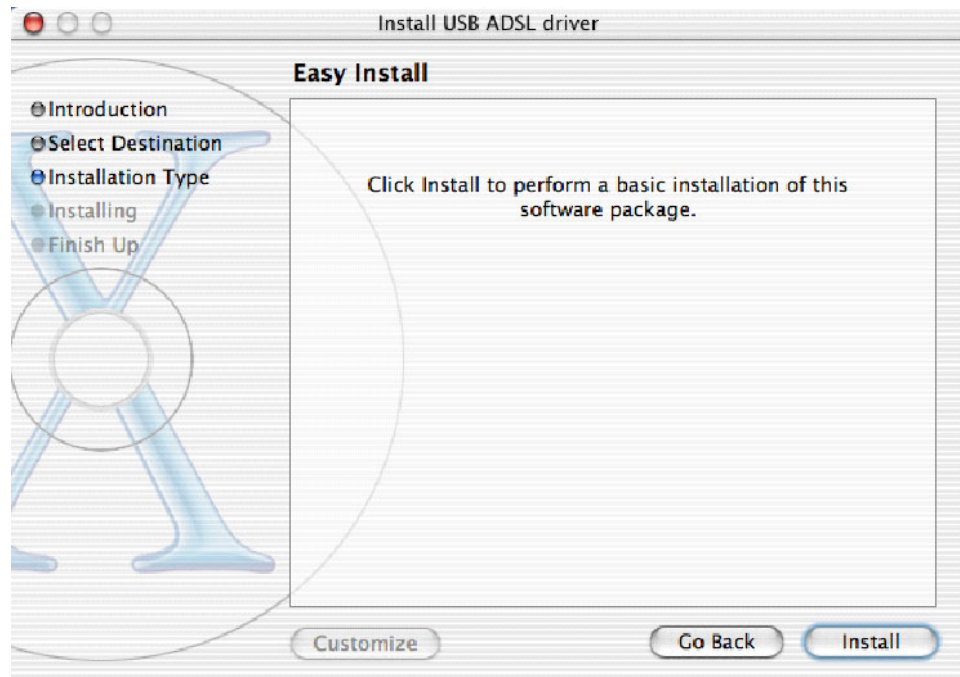
4. Select a destination to install the driver, choose Mac X.



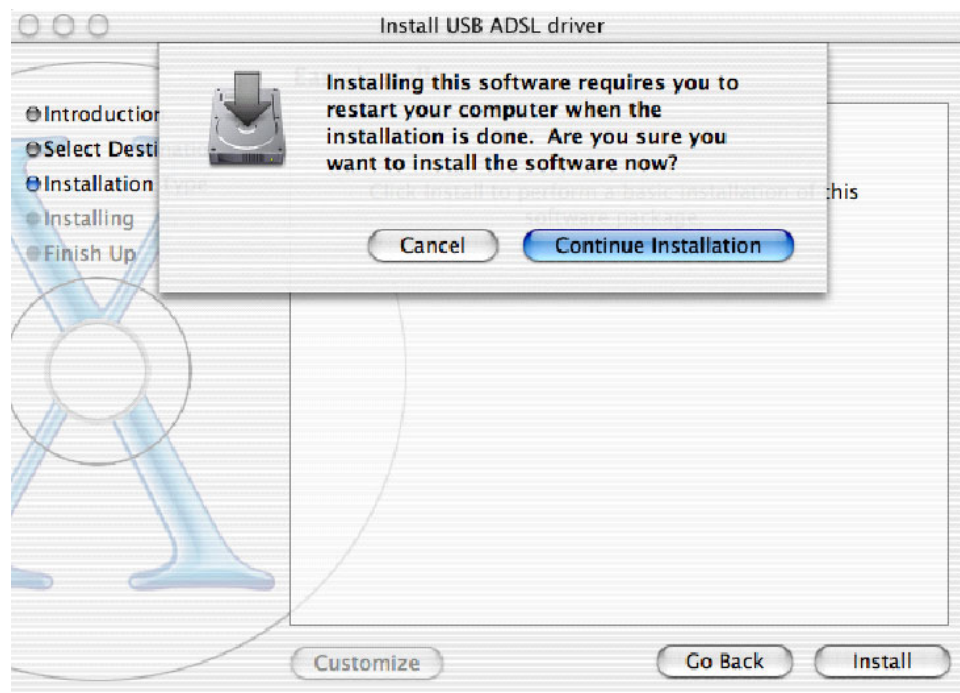
5. Click "Continue".



I-Storm USB ADSL modem



6. Click “Continue Installation” to end the installation.



2.2.7 For Linux Redhat 7.1/7.2

1. Install the driver
(Redhat 7.1)



I-Storm USB ADSL modem

```
#rpm -i USB-RED-HAT-7.1.i386.rpm  
(Redhat 7.2)  
#rpm -i USB-RED-HAT-7.2.i386.rpm  
(Redhat 8.0)  
#rpm -i USB-RED-HAT-8.0.i386.rpm  
(Redhat 9.0)  
#rpm -i USB-RED-HAT-9.0.i386.rpm
```

2. Launch the driver

```
#cd /usr/local/e2  
#insmod e2.o  
#ifconfig hsb0 up (Note: run this command after the  
READY LED blinks)  
#dhcpcd hsb0 (Note: run this command after the  
READY LED blinks)
```

3. Uninstall the driver

```
#rpm -e USBENDPOINT
```

After your installation, please edit this file
/etc/rc.d/rc.local to append four commands.

```
cd /usr/local/e2  
insmod e2.o  
ifconfig hsb0 up  
./dhcpcd hsb0
```

Then PC will get an IP address after reboot from ADSL
USB device automatically.



Chapter 3

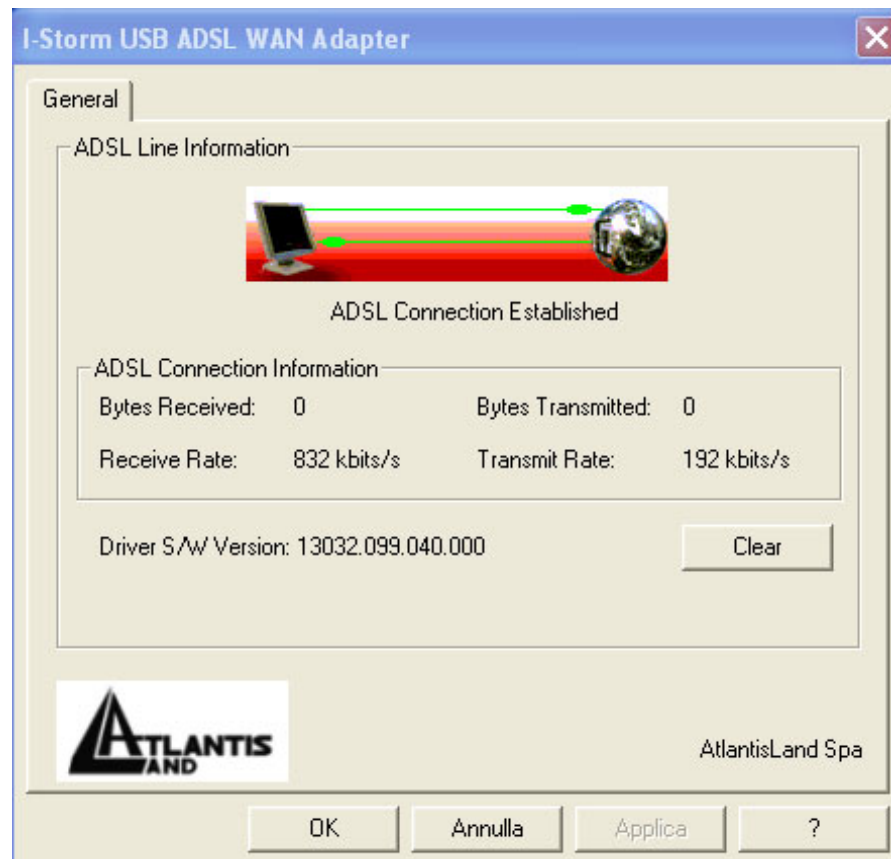
Configuration Windows

Follow the instructions below to configure your I-Storm USB ADSL Modem.

1. Click **I-Storm USB ADSL Modem** icon in the Control Panel or **ADSL Configuration** icon on the desktop. The status of ADSL connection will be displayed.



I-Storm USB ADSL modem



2. Press **[Alt]+[P]** on keyboard, the following figure appears.



I-Storm USB ADSL modem

The screenshot shows the 'I-Storm USB ADSL WAN Adapter' configuration window. The 'Protocol Setup' tab is selected. The window contains the following sections:

- ATM Virtual Circuit Identification:** A table with two columns, 'Virtual Circuit 0' and 'Virtual Circuit 1'.

	Virtual Circuit 0	Virtual Circuit 1
Virtual Path Identifier (VPI)	<input type="text"/>	<input type="text"/>
Virtual Circuit Identifier (VCI)	<input type="text" value="35"/>	<input type="text"/>
- Aggregate Channel Setup:**
 - Encapsulation Mode:** A dropdown menu set to 'PPP over ATM VCMUX (RFC2364)'.
 - Maximum Packet Length:** A sub-section with 'Receive' and 'Transmit' fields, both set to '1500'.
 - Peak Cell Rate (PCR):** A dropdown menu set to 'Line Rate'.

At the bottom are buttons for 'OK', 'Annulla', 'Applica', and a help icon '?'.

3. Select the **Protocol Setup** tag, please set the value of “VPI”, “VCI” and “Encapsulation Mode”. Then, click “OK”.

For BT (VPI=0, VCI=38), for KC(VPI=1, VCI=50).



3.1 I-Storm USB ADSL LAN(RFC1483, RFC1577)

3.1.1 For Windows 98 / Me

1. Go to **Start / Settings / Control Panel**. In the Control Panel, double-click on **Network** and choose the **Configuration** tab.
2. Select **TCP/IP → I-Storm USB ADSL LAN Adapter**. Then, click **Properties**.
3. Select the **IP Address** tab. In this page, click the **Specify an IP address** radio button and enter the “IP address” and “Subnet Mask” provided by your ISP.



I-Storm USB ADSL modem

The screenshot shows the 'TCP/IP Properties' dialog box with the 'IP Address' tab selected. The dialog has a title bar with a question mark and a close button. Below the title bar are four tabs: 'Bindings', 'Advanced', 'NetBIOS', and 'IP Address'. The 'IP Address' tab is active, showing a text area with instructions: 'An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.' Below this text are two radio buttons: 'Obtain an IP address automatically' (unselected) and 'Specify an IP address:' (selected). The 'Specify an IP address:' option is enclosed in a dashed border. Inside this border are two text boxes: 'IP Address:' with the value '142.100.0.60' and 'Subnet Mask:' with the value '255.255.0.0'. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

TCP/IP Properties

Bindings Advanced NetBIOS
DNS Configuration Gateway WINS Configuration IP Address

An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.

☐ Obtain an IP address automatically

☒ Specify an IP address:

IP Address: 142.100.0.60

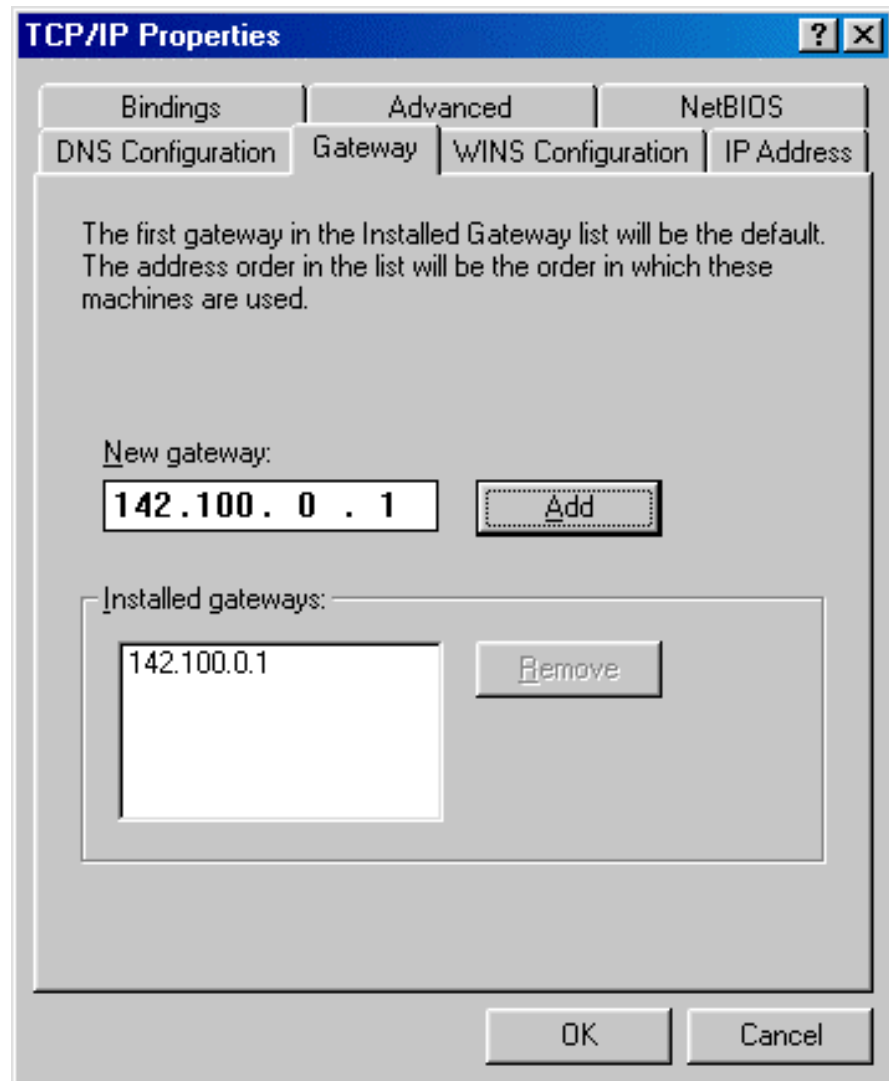
Subnet Mask: 255.255.0.0

OK Cancel

4. Select the **Gateway** tab. Enter the “gateway” provided by your ISP and click **Add**.



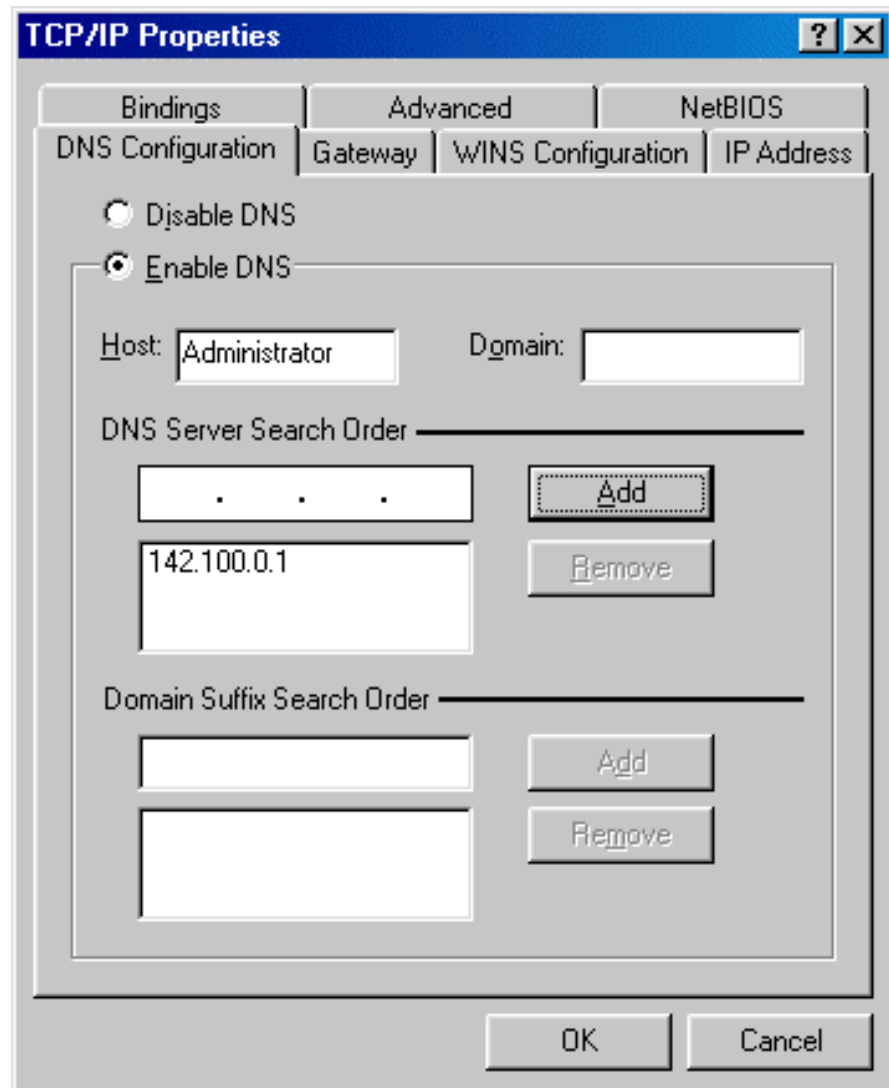
I-Storm USB ADSL modem



5. In the **DNS Configuration** page. Click the **Enable DNS** radio button. Enter the “Host” name and “DNS Server IP address” provided by your ISP. Then, press the **Add** button.



I-Storm USB ADSL modem

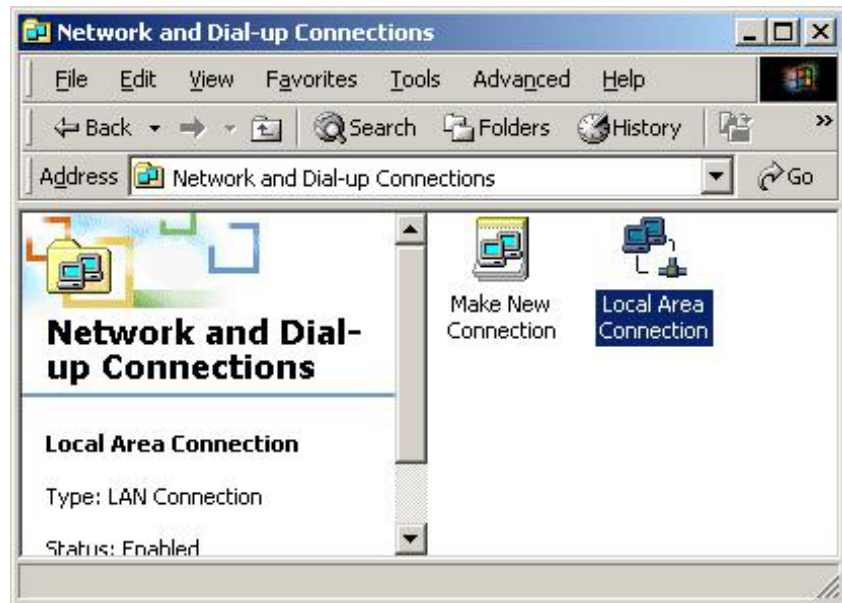


3.1.2 For Windows 2000 / XP

6. Go to **Start / Settings / Control Panel**. In the Control Panel, double-click on **Network and Dial-up Connections**.
7. Right-click on **Local Area Connection** that is using the I-Storm USB DSL LAN Adapter and then click "Properties".



I-Storm USB ADSL modem

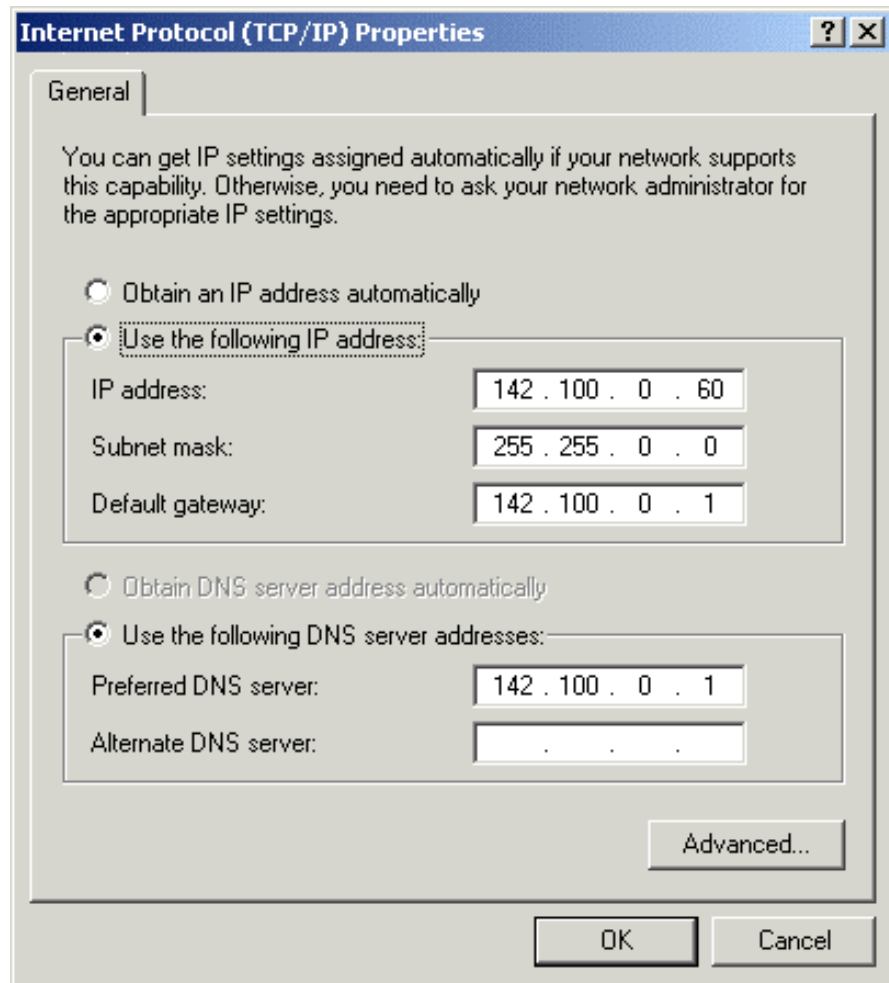


8. Select **Internet Protocol (TCP/IP)**. Then, click “Properties”.
9. Select **Use the following IP address**, and then enter the “IP address”, “Subnet mask”, and “Default gateway” provided by your ISP.

Select **Use the following DNS server addresses** and then enter the provided DNS server IP address.



I-Storm USB ADSL modem

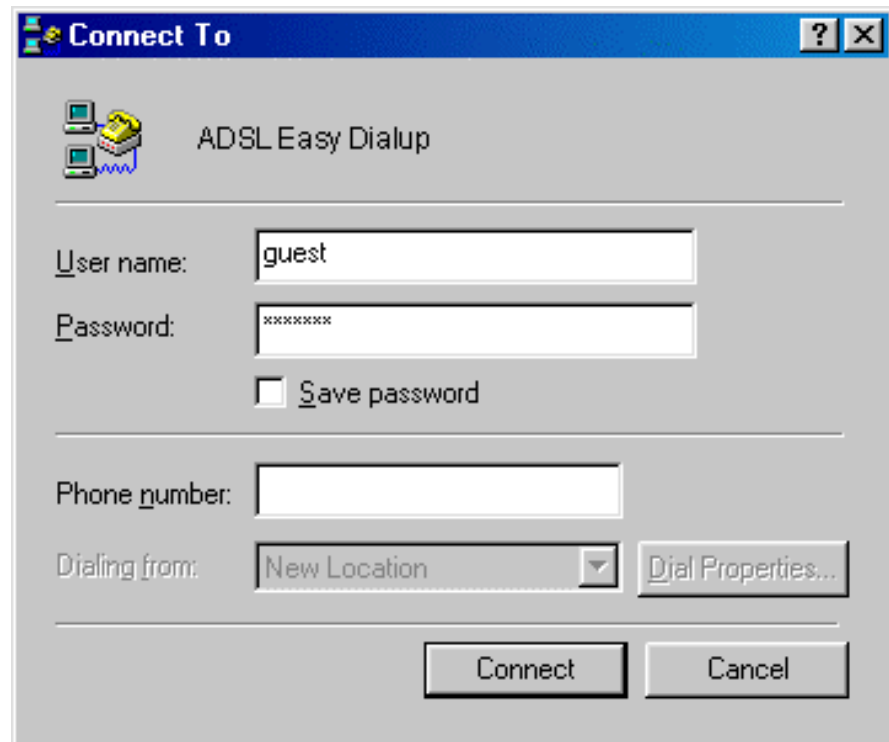


3.2 I-Storm USB ADSL WAN(PPPoA, PPPoE)

1. Click **ADSL Easy Dialup** icon on the desktop. Then, the following window appears. Enter the “Username” and “Password” provided by your ISP. Let the Phone number field be blank.



I-Storm USB ADSL modem



2. Click **Connect** and get ready to surf the Internet!



Chapter 4

Mac OS9,X and Linux

The ADSL USB Modem can be configured with your web browser, the default IP address of the ADSL USB Modem is **192.168.1.254** and subnet mask is **255.255.255.0**.



The ADSL USB Modem uses “Emulate USB port to Ethernet” technology to emulate the USB port to Ethernet port, the terminology “LAN” described in the paragraph below is equal to “USB”.



Any TCP/IP capable workstation can be used to communicate with or through the ADSL Modem/Router. To configure other types of workstations, please consult the manufacturer’s documentation.



4.1 Factory Default Settings

Before you configure this device, you need to know the following default settings.

1. Web Configurator

	User Name	Password
Administrator	admin	password

2. Device IP Network settings in LAN site

IP Address: 192.168.1.254

Subnet Mask: 255.255.255.0

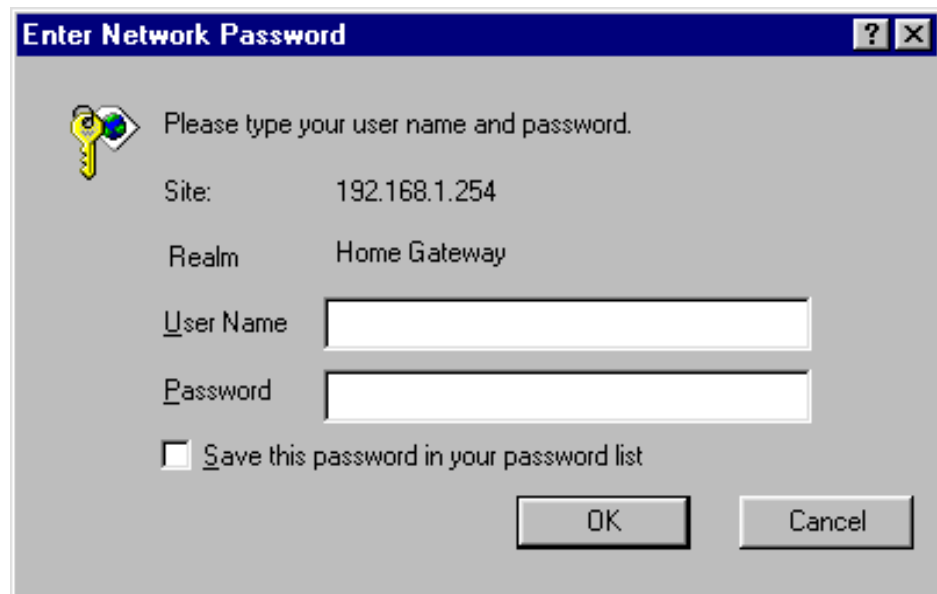
3. ISP setting in WAN site

Virtual Circuit 0: 1483 Bridged IP LLC



4.2 Configuring with Web Browser

The ADSL USB Modem can be configured with your Web browser. Open the web browser, enter the local port IP address of the ADSL Router, which default at **192.168.1.254**, and click “Go” to get the login page.



The default user name and password are **admin** and **password**.





I-Storm USB ADSL modem

Then, click **“OK”** to log in. You can modify the passwords for security and management purpose.

At the configuration homepage, the left navigation pane where bookmarks are provided links you directly to the desired setup page. Click on the desired item to expand the page in the main navigation pane.

4.2.1 Status – Home Page

This screen contains information of the software version of your device and some settings, such as IP Address, Subnet Mask, and MAC Address of the WAN and LAN connections.

Home Page

Firmware Version: ETHADSL_USB_043002_REL15_E
Showtime Firmware Version: 3.14
Customer Software Version: ETHADSL_USB_043002_REL15_E

WAN

IP Address	Subnet Mask	MAC Address
------------	-------------	-------------

LAN

IP Address	Subnet Mask	MAC Address
192.168.1.254	255.255.255.0	02:30:CD:00:06:0A

Number of ethernet devices connected to the DHCP server: 1

	IP Address	MAC Address
1	192.168.1.242	00:30:CD:00:06:0A

ADSL Status

Displays the status of your ADSL connection. It will refresh every two seconds.



I-Storm USB ADSL modem

- ▶ Status
 - Home
 - ADSL
 - PPP
- ▶ Configuration
 - ▶ System
 - ▶ Advance
 - ▶ Save Settings

ADSL STATUS

ADSL Line State: **ACTIVATION**
ADSL Modulation: **N/A**
ADSL Annex Mode: **ANNEX_A**
ADSL Startup Attempts: **0**
Elapsed Time: **0 days 0 hours 1 minutes 58 seconds**

	Downstream	Upstream	
SNR Margin	NA	NA	dB
Line Attenuation	NA	NA	dB
Errored Seconds	0	0	
Loss of Signal	0	0	
Loss of Frame	0	0	
CRC Errors	0	0	
Data Rate	0	0	kbps
Latency	NA	NA	

Status – PPP

Displays the status PPP for each PPP interface.

- ▶ Status
 - Home
 - ADSL
 - PPP
- ▶ Configuration
 - ▶ System
 - ▶ Advance
 - ▶ Save Settings

PPP

#	Connection Name	Interface	Mode	Status	Pkts Sent	Pkts Rcvd	Bytes Sent	Bytes Rcvd
---	-----------------	-----------	------	--------	-----------	-----------	------------	------------

If a * appears under Mode column, you need to [check the WAN configuration](#) to make sure the VC has the correct encapsulation.

Connection #



4.2.2 Configuration – WAN Configuration

The screens below contain settings for the WAN interface toward Internet.

VPI	VCI	Static IP Address	Subnet Mask	Gateway
0	32	192.168.241.101	255.255.255.0	0.0.0.0

ATM
Service Category: UBR
Bandwidth: 0 kbps

ENCAPSULATION
PPPoE LLC

PPP
Service Name:
Username:
Password:
MRU: 1492

- **VPI:** Consult the telephone company to get the Virtual Path Identifier (VPI) number. The default value is 0.
- **VCI:** Consult the telephone company to get the Virtual Channel Identifier (VCI) number. The default value is 32.
- **Static IP Address:** Enter the information provided by your ISP.
- **Subnet Mask:** Enter the information provided by your ISP.
- **Default Gateway:** Enter the gateway address provided by your ISP.

ATM

- **Service Category:** Select UBR or CBR.
- **Bandwidth:** Enter the bandwidth.



I-Storm USB ADSL modem

ENCAPSULATION

There are eleven ways — PPPoE VC-Mux, PPPoE LLC, PPPoE None, PPPoA VC-Mux, PPPoA LLC, 1483 Bridged IP VC-Mux, 1483 Bridged IP LLC, 1483 Routed IP VC-Mux, 1483 Routed IP LLC, Classical IP over ATM, Native ATM — for the device to have a public IP address and then to access Internet. You have to check with your ISP about which way is adopted.

Service Name

Username

Password

MRU

MTU

MSS

Authentication

☐ Automatic Reconnect

PPP reconnect on Internet access

DHCP

☐ DHCP client enable

Host Name

Settings need to be saved to Flash and the system needs to be rebooted for changes to take effect.

Save Confirmation

PPP

If your encapsulation is set to be PPPoE or PPPoA, the following fields must be entered.

- **Service Name:** This item is for identification purpose. If it is required, your ISP will provide you the information. Maximum input is 31 alphanumeric characters.
- **Username:** Enter the username provided by your ISP.
- **Password:** Enter the password provided by your ISP.
- **Authentication:** Default at “Auto”.



I-Storm USB ADSL modem

- **Automatic Reconnect:** Check to enable this device to automatically re-establish the PPPoE session when disconnected by ISP.
- **PPP connect on WAN access:** Check to enable this device to automatically re-establish the PPPoE session whenever there is WAN access traffic, e.g. Internet access.

DHCP

- **DHCP client enable:** Check to enable the DHCP client function if you want the device to get an IP address automatically from your ISP.
- **Host Name:** Enter the name of your work group.



All settings need to be saved and the device needs to be rebooted before the changes to take effect.

4.2.3 Configuration – LAN Configuration

This screen contains settings for USB interface attached to the USB port.



I-Storm USB ADSL modem

The screenshot shows the web interface of the I-Storm USB ADSL modem. On the left is a vertical navigation menu with the following items: Status, Configuration, WAN, LAN (highlighted in red), DNS, System, Advance, and Save Settings. The main content area is titled 'LAN Configuration'. It contains two input fields: 'IP Address' with the value '192.168.1.254' and 'Subnet Mask' with the value '255.255.255.0'. Below these fields are two buttons: 'Submit' and 'Reset'. At the bottom of the main area, a message states: 'Settings need to be saved to Flash and the system needs to be rebooted for the changes to take effect.'

- **IP Address: Default at 192.168.1.254.** This is the device IP address in LAN site. If you plan to change it to another IP address to a different range of IP subnet. Please make sure your PC is also located at the same IP subnet. Otherwise, you may not be able to access the ADSL Router.
- **Subnet Mask: Default at 255.255.255.0.**



4.2.4 Configuration – DNS Configuration

The screenshot shows the 'DNS Configuration' web interface. On the left is a vertical navigation menu with the following items: Status, Configuration, WAN, LAN, DNS (highlighted in red), System, Advance, and Save Settings. The main content area is titled 'DNS Configuration' and contains a 'DNS Proxy Selection' dropdown menu set to 'Disable DNS Proxy'. Below this is a 'User Configuration' section with two input fields: 'Preferred DNS Server' and 'Alternate DNS Server', both containing '0.0.0.0'. At the bottom of this section are 'Submit' and 'Reset' buttons. A message at the bottom of the page states: 'Settings need to be saved to Flash and the system needs to be rebooted for the changes to take effect.'

A Domain Name System (DNS) contains a mapping table for domain name and IP address. In the Internet, every host has a unique and friendly name such as www.yahoo.com and IP address. The IP address is so hard to remember that you may just enter the friendly name www.yahoo.com and then the DNS will convert it to its equivalent IP address.

You can obtain Domain Name System (DNS) IP address automatically if ISP provides it when you logon. Or your ISP may provide you with an IP address of DNS. If this is the case, you must enter the DNS IP address.



4.2.5 System – Password Configuration

The screenshot shows a web interface for configuring the admin password. On the left is a navigation menu with the following items: Status, Configuration, System, Admin Password (highlighted with a red box), Reset to Factory Default, Diagnostic Test, System Log, Advance, and Save Settings. The main content area is titled 'Admin Password Configuration' and contains the following text: 'The password for Admin should be at least 8 characters. Do not use '&' in the password.' Below this text are two input fields: 'Admin Password' and 'Retype Password'. At the bottom of the form are two buttons: 'Submit' and 'Reset'. A final note at the bottom states: 'Settings need to be saved to Flash and the system needs to be rebooted for changes to take effect.'

In factory setting, the default password for administrator is password, and that for user is also password. You can change the default password to ensure that someone cannot adjust your settings without your permission. Every time you change your password, please record the password and keep it at a safe place.

Please note that the minimum input for password is **8** alphanumeric characters long. Since it is **case sensitive**, be sure that you remember whether a letter is in upper or lower case and make sure that your Caps Lock is off. Moreover, please do not use the sign “&” in the passwords.

4.2.6 System – Diagnostic Test

As soon as you enter the test program, all tests will run automatically to diagnose the connection status of the device.



I-Storm USB ADSL modem

- ▶ Status
- ▶ Configuration
- ▶ System
 - Admin Password
 - Reset to Factory Default
 - Diagnostic Test
 - System Log
- ▶ Advance
- ▶ Save Settings

Diagnostic Test

Checking USB Connection		
Testing USB connection	: PASS	HELP
Checking ADSL Connection		
Testing ADSL Synchronization	: PASS	HELP
Checking Circuit 0 for Network Connection		
Test ATM OAM Segment Loop Back	: FAIL	HELP
Test ATM OAM End-to-End Loop Back	: FAIL	HELP
Test Ethernet connect to ATM	: PASS	HELP
Testing Internet Connection		
Ping primary DNS	: SKIPPED	HELP
Query DNS for www.conexant.com	: SKIPPED	HELP
Ping www.conexant.com	: SKIPPED	HELP

- ▶ Status
- ▶ Configuration
- ▶ System
 - Admin Password
 - Reset to Factory Default
 - Diagnostic Test
 - System Log
- ▶ Advance
- ▶ Save Settings

Diagnostic Test

Checking USB Connection		
Testing USB connection	: PASS	HELP
Checking ADSL Connection		
Testing ADSL Synchronization	: PASS	HELP
Checking Circuit 0 for Network Connection		
Test ATM OAM Segment Loop Back	: PASS	HELP
Test ATM OAM End-to-End Loop Back	: PASS	HELP
Test Ethernet connect to ATM	: PASS	HELP
Test simple ppp session 0 PPPOE connection	: PASS	HELP
Test simple ppp session 0 PPP Layer connection	: PASS	HELP
Test simple ppp session 0 IP connect to PPP	: PASS	HELP
Testing Internet Connection		
Ping default gateway 61.59.170.1	: PASS	HELP
Ping primary DNS 139.175.55.244	: PASS	HELP
Query DNS for www.conexant.com	: PASS	HELP
Ping www.conexant.com	: FAIL	HELP

Checking LAN Connection

Testing Ethernet LAN connection

This test passes if the Ethernet LAN interface is working properly.

Checking ADSL Connection

Testing ADSL Synchronization



I-Storm USB ADSL modem

This test checks your DSL modem to see if it can successfully negotiate and establish a DSL connection with your service provider's central office equipments. The test returns PASS if a DSL connection is established. If this test returns FAIL, please try the test again a few minutes after this test is completed. Since your DSL modem need a couple of seconds to a few minutes to establish the DSL connection depending on your phone line quality. If this test returns FAIL, make sure your phone line is connected to your DSL modem securely, and also check with your service provider to see if your service is activated.

If this test returns FAIL, all other tests will be skipped.

Checking Circuit 0 for Network Connection

Test ATM OAM Segment Loop Back

This test sends ATM OAM F5 Segment loop back request cells to the central office equipments through your DSL connection. This test will pass if response cell is received. Since your service provider might not support this test, your DSL modem could still work even if this test fails.

If this test fails consistently and your DSL modem seems not working, check to make sure the VPI and VCI are configured correctly.

This test returns FAIL if the DSL synchronization test failed.

Test ATM OAM End-to-End Loop Back

This test sends ATM OAM F5 End-to-End loop back request cells to the central office equipments through your DSL connection. This test returns PASS if response cell is received. Since your service provider might not support this test, your DSL modem could still work even if this test fails.



I-Storm USB ADSL modem

If this test return FAIL consistently and your DSL modem seems not working, check to make sure the VPI and VCI are configured correctly.

This test returns SKIPPED if the DSL synchronization test failed.

Test Ethernet connect to ATM

This test returns PASS if the ATM AAL5 module is loaded correctly in your DSL modem. If this test returns FAIL, an internal error has occurred.

This test returns SKIPPED if the DSL synchronization does not return PASS.

Test PPPoE connection

This test returns PASS if your login name and password have passed authentication with your service provider.

If this test returns FAIL, run this test again a few minutes after this test is completed, especially if your PPP connection has just been improperly disconnected. If this test consistently fails, first make sure your login name and password are correct. Remember that login name and password are case sensitive.

This test returns SKIPPED if “PPPOE connect to Ethernet” test does not return PASS and your DSL modem is configured as PPPOE encapsulation.

This test also returns SKIPPED if “Ethernet connect to AAL5” test does not return PASS and your DSL modem is configured as PPPOA encapsulation.

Test PPP Layer connection

This test returns PASS if your DSL modem has been assigned a valid IP address by your service provider through DHCP or your DSL modem is assigned a valid IP address statically.



I-Storm USB ADSL modem

If this test returns FAIL, run this test again a few minutes after this test is completed. If this test returns FAIL consistently and DHCP client is turned on in your DSL modem, check with your service provider. If this test returns FAIL consistently and your DSL modem is statically assigned an IP address, make sure the IP address is the correct one assigned by your service provider.

This test returns SKIPPED if “Ethernet connect to AAL5” test does not return PASS.

Test IP connect to PPP

This test returns PASS if your DSL modem has been assigned a valid IP address by your service provider through DHCP or your DSL modem is assigned a valid IP address statically.

If this test returns FAIL, run this test again a few minutes after this test is completed. If this test returns FAIL consistently and DHCP client is turned on in your DSL modem, check with your service provider. If this test returns FAIL consistently and your DSL modem is statically assigned an IP address, make sure the IP address is the correct one assigned by your service provider.

This test returns SKIPPED if “Ethernet connect to AAL5” test does not return PASS.

Test IP connect to Ethernet

This test returns PASS if the gateway can be reached through ping request. The gateway is assigned by your service provider, or obtained from your service provider by PPP negotiation or DHCP negotiation.

If this test returns FAIL, run this test again a few minutes after this test is completed. If this test returns FAIL consistently and your DSL modem seems not working, check to make sure your statically assigned IP address is configured correctly or DHCP client is turned on with the current VC.



I-Storm USB ADSL modem

This test returns **SKIPPED** if "IP connect to PPP" or "IP connect to Ethernet" test does not return **PASS**.

4.2.7 System – System Log

The screenshot displays the web interface of the I-Storm USB ADSL modem. On the left, a navigation menu lists several options: Status, Configuration, System, Admin Password, Reset to Factory Default, Diagnostic Test, System Log (highlighted in red), Advance, and Save Settings. The main content area is titled 'System Log' and contains a text box with the following log entries:

```
1/1/1970 0:0:30> ADSL connected  
1/1/1970 0:0:30> ATM layer is up, cell delineation  
achieved  
1/1/1970 0:0:30> ATM Connected  
1/1/1970 0:0:0> ATM: Setting up vcc0, VPI=0, VCI=32  
1/1/1970 0:0:0> ATM: Detected
```

Below the log entries is a 'Clear Log' button. At the bottom of the interface, a message reads: 'If you would like to save the log to a text file, right click [here](#) and select "Save Target As ..."'. The 'here' link is highlighted in blue.

Display the system logs cumulated till the present time. You can trace the historical information through this function. It refreshes every five seconds.



4.2.8 Advance – WAN Status

WAN

IP Address	Subnet Mask	MAC Address

Release Reconnect

Each VC setting you enabled in the *WAN Configuration* section except that uses the PPP encapsulation will be displayed in this table.

4.2.9 Advance – ATM Status

Display the status of ATM.



I-Storm USB ADSL modem

<ul style="list-style-type: none">▶ Status▶ Configuration▶ System▶ Advance<ul style="list-style-type: none">◉ WAN Status◉ ATM Status◉ TCP Status◉ ADSL Configuration▶ Save Settings	ATM STATUS	
	Tx Bytes	0
	Rx Bytes	0
	Tx Cells	0
	Rx Cells	0
	Rx HEC Errors	0
	Tx Mgmt Cells	0
	Rx Mgmt Cells	0
	Tx CLP0 Cells	0
	Rx CLP0 Cells	0
	Tx CLP1 Cells	0
	Rx CLP1 Cells	0
	Rx Errors	0
	Tx Errors	0
	Rx Misrouted Cells	0

4.2.10 Advance – TCP Status

Display the status of TCP. This screen will automatically refresh every two seconds.

<ul style="list-style-type: none">▶ Status▶ Configuration▶ System▶ Advance<ul style="list-style-type: none">◉ WAN Status◉ ATM Status◉ TCP Status◉ ADSL Configuration▶ Save Settings	TCP STATUS	
	Total Packets Sent	479
	Data Packets Sent	259
	Data Bytes Sent	157388
	Total Packets Received	440
	Packets Received in-sequence	72
	Bytes Received in-sequence	27230
	Out of Order Packets	70
	Out of Order Bytes	0
	Packets discarded for bad checksum	0
	Packets discarded for bad header offset	0
	Packets discarded because too short	0
	Connections Initiated	6
	Connections Accepted	72
	Connections Established	72
	Connections Closed	53



4.2.11 Advance – ADSL Configuration

- **Trellis:** Default at **Enabled**.
- **Handshake Protocol:** Default at **Autosense – G.dmt first**. You can also choose other protocols, such as **Autosense – T1.413 first**, **G.dmt/G.lite**, **T1.413**, **G.dmt**, **G.lite**.
- **Wiring Selection:** Default at **Tip/Ring**. Select **Auto** or **A/A1** if necessary.



4.2.12 Save Settings

The screenshot shows a web interface for the I-Storm USB ADSL modem. On the left, there is a vertical menu with the following options: Status, Configuration, System, Advance, and Save Settings. The 'Save Settings' option is highlighted. On the right, the main content area displays the text 'Write settings to flash and reboot.' and a 'Submit' button below it.

Click the **Submit** button to write settings to flash. Then, the system will reboot for changes to take effect.



I-Storm USB ADSL modem



APPENDIX

Product Support

If you have any problems with the I-Storm USB ADSL Modem, please contact the dealer where you bought this product. If you have any other questions you can contact the Atlantis Land company directly at the following address:

Atlantis Land SpA

Viale De Gasperi 122

20017 Mazzo di Rho (MI)

Tel: +39.(0)2.93906085

Fax: +39.(0)2.93906161

Help Desk :+39.(0)2.93907634

Email: tecnici@atlantis-land.com

WWW: www.atlantis-land.com



I-Storm USB ADSL modem